```
=> s acinetobacter
L1          4206 ACINETOBACTER

=> s prion?
L2          5104 PRION?

=> s (antibod? or antiser?)
           634056 ANTIBOD?
            54454 ANTISER?
L3         662896 (ANTIBOD? OR ANTISER?)

=> s (myelin or myelin neurofilament?)
            25414 MYELIN
            25414 MYELIN
             6639 NEUROFILAMENT?
                1 MYELIN NEUROFILAMENT?
                  (MYELIN(W)NEUROFILAMENT?)
L4          25414 (MYELIN OR MYELIN NEUROFILAMENT?)

=> s autoimmun?
L5          69166 AUTOIMMUN?

=> s (spongiform or demyelinating)
             3387 SPONGIFORM
            10627 DEMYELINATING
L6          13982 (SPONGIFORM OR DEMYELINATING)

=> s (ms or multiple sclerosis)
            64130 MS
           375554 MULTIPLE
            54470 SCLEROSIS
            26374 MULTIPLE SCLEROSIS
                  (MULTIPLE(W)SCLEROSIS)
L7          81954 (MS OR MULTIPLE SCLEROSIS)

=> s (cjd or creutzfeld jacob disease)
             1176 CJD
              158 CREUTZFELD
              638 JACOB
          1452095 DISEASE
               20 CREUTZFELD JACOB DISEASE
                  (CREUTZFELD(W)JACOB(W)DISEASE)
L8           1193 (CJD OR CREUTZFELD JACOB DISEASE)

=> s l1 and l2 and l3 and l4 and l5 and l6 and l7
L9              0 L1 AND L2 AND L3 AND L4 AND L5 AND L6 AND L7

=> s l1 and l2
L10             3 L1 AND L2

=> s l10 and l3
L11             2 L10 AND L3

=> d l11 1-2 bib ab

L11  ANSWER 1 OF 2     MEDLINE
AN   2002627378     MEDLINE
DN   22272992   PubMed ID: 12383651
TI   Failure to demonstrate involvement of antibodies to
     Acinetobacter calcoaceticus in transmissible spongiform
     encephalopathies of animals.
AU   Nielsen K; Widdison J; Balachandran A; Stevenson D; Algire J
CS   Animal Diseases Research Institute, Canadian Food Inspection Agency, 3851
     Fallowfield Road, Nepean, Ont, Canada K2H 8P9.. nielsenk@inspection.gc.ca
```

SO VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY, (2002 Oct 28) 89 (3-4) 197-205.
Journal code: 8002006. ISSN: 0165-2427.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200301
ED Entered STN: 20021018
Last Updated on STN: 20030125
Entered Medline: 20030124
AB **Acinetobacter** calcoaceticus, a soil microbe, contains molecular sequences which resemble those found in neurofilaments of the brain tissue. It was hypothesized that if cattle ingest large amounts of feedstuff containing A. calcoaceticus, they may develop an autoimmune reaction, with consequences of pathological changes associated with transmissible spongiform encephalopathies (TSEs). The hypothesis was tested using a small number of serum samples collected from cattle and it was found that affected individuals had elevated serum **antibody** levels to this organism. If this finding was substantiated, it would provide a possible means of diagnosing TSEs in vivo. In the present communication, a larger number of cattle, elk and sheep with or without TSEs were tested using A. calcoaceticus whole cell and lipopolysaccharide antigens as well as myelin basic protein (MBP). It was found that **antibody** levels in normal and affected animals overlapped considerably, thus casting doubt on the usefulness of these antigens as diagnostic tools for TSEs and on the hypothesis of A. calcoaceticus being a cause of TSEs.
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L11 ANSWER 2 OF 2 MEDLINE
AN 2000038326 MEDLINE
DN 20038326 PubMed ID: 10569779
TI Autoantibodies to brain components and **antibodies** to **Acinetobacter** calcoaceticus are present in bovine spongiform encephalopathy.
AU Tiwana H; Wilson C; Pirt J; Cartmell W; Ebringer A
CS Infection and Immunity Group, Division of Life Sciences, King's College, London, United Kingdom.
SO INFECTION AND IMMUNITY, (1999 Dec) 67 (12) 6591-5.
Journal code: 0246127. ISSN: 0019-9567.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199912
ED Entered STN: 20000113
Last Updated on STN: 20000113
Entered Medline: 19991220
AB Bovine spongiform encephalopathy (BSE) is a neurological disorder, predominantly of British cattle, which belongs to the group of transmissible spongiform encephalopathies together with Creutzfeldt-Jakob disease (CJD), kuru, and scrapie. Autoantibodies to brain neurofilaments have been previously described in patients with CJD and kuru and in sheep affected by scrapie. Spongiform-like changes have also been observed in chronic experimental allergic encephalomyelitis, at least in rabbits and guinea pigs, and in these conditions autoantibodies to myelin occur. We report here that animals with BSE have elevated levels of immunoglobulin A autoantibodies to brain components, i.e., neurofilaments ($P < 0.001$) and myelin ($P < 0.001$), as well as to **Acinetobacter** calcoaceticus ($P < 0.001$), saprophytic microbes found in soil which have sequences cross-reacting with bovine neurofilaments and myelin, but there were no **antibody** elevations against Agrobacterium tumefaciens or Escherichia coli. The relevance of such mucosal autoantibodies or antibacterial **antibodies** to the pathology of BSE and its

possible link to **prions** requires further evaluation.

```
=> s l1 and l4
L12          5 L1 AND L4

=> d l12 1-5 bib ab

L12  ANSWER 1 OF 5     MEDLINE
AN   2002627378     MEDLINE
DN   22272992   PubMed ID: 12383651
TI   Failure to demonstrate involvement of antibodies to Acinetobacter
     calcoaceticus in transmissible spongiform encephalopathies of animals.
AU   Nielsen K; Widdison J; Balachandran A; Stevenson D; Algire J
CS   Animal Diseases Research Institute, Canadian Food Inspection Agency, 3851
     Fallowfield Road, Nepean, Ont, Canada K2H 8P9.. nielsenk@inspection.gc.ca
SO   VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY, (2002 Oct 28) 89 (3-4) 197-205.
     Journal code: 8002006. ISSN: 0165-2427.
CY   Netherlands
DT   Journal; Article; (JOURNAL ARTICLE)
LA   English
FS   Priority Journals
EM   200301
ED   Entered STN: 20021018
     Last Updated on STN: 20030125
     Entered Medline: 20030124
AB   Acinetobacter calcoaceticus, a soil microbe, contains molecular
     sequences which resemble those found in neurofilaments of the brain
     tissue.  It was hypothesized that if cattle ingest large amounts of
     feedstuff containing A. calcoaceticus, they may develop an autoimmune
     reaction, with consequences of pathological changes associated with
     transmissible spongiform encephalopathies (TSEs).  The hypothesis was
     tested using a small number of serum samples collected from cattle and it
     was found that affected individuals had elevated serum antibody levels to
     this organism.  If this finding was substantiated, it would provide a
     possible means of diagnosing TSEs in vivo.  In the present communication,
     a larger number of cattle, elk and sheep with or without TSEs were tested
     using A. calcoaceticus whole cell and lipopolysaccharide antigens as well
     as myelin basic protein (MBP).  It was found that antibody
     levels in normal and affected animals overlapped considerably, thus
     casting doubt on the usefulness of these antigens as diagnostic tools for
     TSEs and on the hypothesis of A. calcoaceticus being a cause of TSEs.
     Copyright 2002 Elsevier Science B.V.

L12  ANSWER 2 OF 5     MEDLINE
AN   2001638734     MEDLINE
DN   21546642   PubMed ID: 11687461
TI   Antibody responses to Acinetobacter spp. and Pseudomonas
     aeruginosa in multiple sclerosis: prospects for diagnosis using the
     myelin-acinetobacter-neurofilament antibody index.
AU   Hughes L E; Bonell S; Natt R S; Wilson C; Tiwana H; Ebringer A; Cunningham
     P; Chamoun V; Thompson E J; Croker J; Vowles J
CS   Infection and Immunity Group, Division of Life Sciences, King's College
     London, London, United Kingdom.
SO   CLINICAL AND DIAGNOSTIC LABORATORY IMMUNOLOGY, (2001 Nov) 8 (6) 1181-8.
     Journal code: 9421292. ISSN: 1071-412X.
CY   United States
DT   Journal; Article; (JOURNAL ARTICLE)
LA   English
FS   Priority Journals
EM   200201
ED   Entered STN: 20011107
     Last Updated on STN: 20020128
     Entered Medline: 20020125
```

AB Antibody responses to **Acinetobacter** (five strains), Pseudomonas aeruginosa, Escherichia coli, **myelin** basic protein (MBP), and neurofilaments were measured in sera from 26 multiple sclerosis (MS) patients, 20 patients with cerebrovascular accidents (CVA), 10 patients with viral encephalitis, and 25 healthy blood donors. In MS patients, elevated levels of antibodies against all strains of **Acinetobacter** tested were present, as well as antibodies against P. aeruginosa, MBP, and neurofilaments, but not antibodies to E. coli, compared to the CVA group and controls. The **myelin-Acinetobacter**-neurofilament antibody index appears to distinguish MS patients from patients with CVAs or healthy controls. The relevance of such antibodies to the neuropathology of MS requires further evaluation.

L12 ANSWER 3 OF 5 MEDLINE
AN 2000038326 MEDLINE
DN 20038326 PubMed ID: 10569779
TI Autoantibodies to brain components and antibodies to **Acinetobacter** calcoaceticus are present in bovine spongiform encephalopathy.
AU Tiwana H; Wilson C; Pirt J; Cartmell W; Ebringer A
CS Infection and Immunity Group, Division of Life Sciences, King's College, London, United Kingdom.
SO INFECTION AND IMMUNITY, (1999 Dec) 67 (12) 6591-5.
Journal code: 0246127. ISSN: 0019-9567.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199912
ED Entered STN: 20000113
Last Updated on STN: 20000113
Entered Medline: 19991220
AB Bovine spongiform encephalopathy (BSE) is a neurological disorder, predominantly of British cattle, which belongs to the group of transmissible spongiform encephalopathies together with Creutzfeldt-Jakob disease (CJD), kuru, and scrapie. Autoantibodies to brain neurofilaments have been previously described in patients with CJD and kuru and in sheep affected by scrapie. Spongiform-like changes have also been observed in chronic experimental allergic encephalomyelitis, at least in rabbits and guinea pigs, and in these conditions autoantibodies to **myelin** occur. We report here that animals with BSE have elevated levels of immunoglobulin A autoantibodies to brain components, i.e., neurofilaments ($P < 0.001$) and **myelin** ($P < 0.001$), as well as to **Acinetobacter** calcoaceticus ($P < 0.001$), saprophytic microbes found in soil which have sequences cross-reacting with bovine neurofilaments and **myelin**, but there were no antibody elevations against Agrobacterium tumefaciens or Escherichia coli. The relevance of such mucosal autoantibodies or antibacterial antibodies to the pathology of BSE and its possible link to prions requires further evaluation.

L12 ANSWER 4 OF 5 MEDLINE
AN 1998039091 MEDLINE
DN 98039091 PubMed ID: 9370514
TI Bovine spongiform encephalopathy: is it an autoimmune disease due to bacteria showing molecular mimicry with brain antigens?.
AU Ebringer A; Thorpe C; Pirt J; Wilson C; Cunningham P; Ettelaie C
CS Division of Life Sciences, Infection and Immunity Group and Department of Computing, King's College, Campden Hill Road, London, United Kingdom.
SO ENVIRONMENTAL HEALTH PERSPECTIVES, (1997 Nov) 105 (11) 1172-4.
Journal code: 0330411. ISSN: 0091-6765.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199801

ED Entered STN: 19980129
Last Updated on STN: 19980129
Entered Medline: 19980115

AB Bovine spongiform encephalopathy (BSE) could be an autoimmune disease produced following exposure of cattle to feedstuffs containing bacteria showing molecular mimicry between bacterial components and bovine tissue. Analysis of molecular sequence databases (Genbank and SwissProt) shows that three bacteria (**Acinetobacter** calcoaceticus,Ruminococcus albus, and Agrobacter tumefaciens) share sequences with the encephalitogenic peptide of bovine **myelin**, while three molecules in Escherichia coli show molecular mimicry with host-encoded prion protein. Immune responses against these bacteria at both T and B cell levels may cause neurological tissue injury resembling BSE. The role of these bacteria in BSE, if any, merits further investigation.

L12 ANSWER 5 OF 5 MEDLINE
AN 86128537 MEDLINE
DN 86128537 PubMed ID: 3004271
TI Colloidal gold immunoultrastructural localization of rat surfactant.
AU Coalson J J; Winter V T; Martin H M; King R J
NC HL-16725 (NHLBI)
HL-23578 (NHLBI)
SO AMERICAN REVIEW OF RESPIRATORY DISEASE, (1986 Feb) 133 (2) 230-7.
Journal code: 0370523. ISSN: 0003-0805.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 198603
ED Entered STN: 19900321
Last Updated on STN: 19970203
Entered Medline: 19860310

AB Using a polyclonal antiserum against the nonserum proteins in purified rat surfactant, we have localized protein antigen within the lamellar bodies of rat alveolar Type II cells perfusion-fixed with 2% cacodylate-buffered paraformaldehyde and postfixed with 0.5% osmium. A postembedment indirect immunogold ultrastructural localization was used and 20 nm gold particles were localized over the lamellae in Type II cell lamellar bodies, in tubular **myelin**, and in some of the secondary lysosomes of alveolar macrophages. Occasional labeling was seen in the rough endoplasmic reticulum and multivesicular bodies in some Type II cells, but the amount of this staining was not different from nonspecific background. There was, however, an invariant lack of labeling over all other lung cell types. These results demonstrate the presence of surfactant proteins within the lamellar body secretory product and support the idea that the surfactant lipoprotein complex is formed within intracellular sites prior to its secretion into the alveolar space.

=> s l3 and l4
L13 4339 L3 AND L4

=> s l13 and l5
L14 1114 L13 AND L5

=> s l14 and l1
L15 1 L14 AND L1

=> d l15 ab bib

L15 ANSWER 1 OF 1 MEDLINE
AB **Acinetobacter** calcoaceticus, a soil microbe, contains molecular sequences which resemble those found in neurofilaments of the brain tissue. It was hypothesized that if cattle ingest large amounts of

feedstuff containing A. calcoaceticus, they may develop an **autoimmune** reaction, with consequences of pathological changes associated with transmissible spongiform encephalopathies (TSEs). The hypothesis was tested using a small number of serum samples collected from cattle and it was found that affected individuals had elevated serum **antibody** levels to this organism. If this finding was substantiated, it would provide a possible means of diagnosing TSEs in vivo. In the present communication, a larger number of cattle, elk and sheep with or without TSEs were tested using A. calcoaceticus whole cell and lipopolysaccharide antigens as well as **myelin** basic protein (MBP). It was found that **antibody** levels in normal and affected animals overlapped considerably, thus casting doubt on the usefulness of these antigens as diagnostic tools for TSEs and on the hypothesis of A. calcoaceticus being a cause of TSEs.

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AN 2002627378 MEDLINE
DN 22272992 PubMed ID: 12383651

TI Failure to demonstrate involvement of **antibodies** to **Acinetobacter** calcoaceticus in transmissible spongiform encephalopathies of animals.

AU Nielsen K; Widdison J; Balachandran A; Stevenson D; Algire J
CS Animal Diseases Research Institute, Canadian Food Inspection Agency, 3851 Fallowfield Road, Nepean, Ont, Canada K2H 8P9.. nielsenk@inspection.gc.ca

SO VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY, (2002 Oct 28) 89 (3-4) 197-205. Journal code: 8002006. ISSN: 0165-2427.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200301
ED Entered STN: 20021018
Last Updated on STN: 20030125
Entered Medline: 20030124

=>

d l9 1-2 bib ab

L9 ANSWER 1 OF 2 MEDLINE
AN 2003213543 IN-PROCESS
DN 22620105 PubMed ID: 12734891
TI Cytotoxicity responses to Peptide antigens in rheumatoid arthritis and ankylosing spondylitis.
AU Wilson Clyde; Rashid Taha; Tiwana Harmale; Beyan Huryia; Hughes Lucy; Bansal Sukvinder; **Ebringer Alan**; Binder Allen
CS Division of Life Sciences, Infection and Immunity Group, King's College London, London, England.
SO JOURNAL OF RHEUMATOLOGY, (2003 May) 30 (5) 972-8.
Journal code: 7501984. ISSN: 0315-162X.
CY Canada
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20030508
Last Updated on STN: 20030508
AB OBJECTIVE: To measure levels of IgG antibodies against structurally related synthetic peptides of HLA-DRB1*0404, type XI collagen, and Proteus mirabilis in patients with rheumatoid arthritis (RA) and HLA-B*2705 and Klebsiella pneumoniae in patients with ankylosing spondylitis (AS), and to determine whether sera from RA and AS patients are cytotoxic for sheep red blood cells (SRBC) coated with HLA-DRB1*0404, type XI collagen, or HLA-B*2705. METHODS: Sera from 51 patients with RA, 34 with AS, and 38 healthy controls were tested against synthetic EQRRAA, ESRRAL, LRREI, and IRRET peptides by ELISA. Sera from patients and controls were also tested for reactivity in complement mediated cytotoxicity with SRBC coated with EQRRAA and HLA-B*2705, LRREI peptides. RESULTS: Antibodies to synthetic peptides containing EQRRAA, ESRRAL, LRREI, and IRRET were significantly increased in RA patients compared with AS patients ($p < 0.001$) and controls ($p < 0.001$). The percentage lysis data for SRBC coated with EQRRAA and LRREI peptides were significantly higher for RA sera ($p < 0.001$) compared to control sera. Percentage lysis for SRBC coated with HLA-B*2705 peptide was significantly higher for AS sera ($p < 0.001$) compared to control sera. CONCLUSION: Our results suggest that antibodies against antigenic determinants of P. mirabilis in RA and K. pneumoniae in AS have cytotoxic properties on structurally related host proteins. These cytotoxic antibodies together with T cell interactions could be relevant in the etiopathogenesis of RA and AS.

L9 ANSWER 2 OF 2 MEDLINE
AN 2003121916 MEDLINE
DN 22522610 PubMed ID: 12635939
TI Rheumatoid arthritis: proposal for the use of anti-microbial therapy in early cases.
AU **Ebringer Alan**; Rashid Taha; Wilson Clyde
CS Division of Life Sciences, Infection and Immunity Group, King's College London, UK.. alan.ebringer@kcl.ac.uk
SO SCANDINAVIAN JOURNAL OF RHEUMATOLOGY, (2003) 32 (1) 2-11. Ref: 117
Journal code: 0321213. ISSN: 0300-9742.
CY Norway
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, ACADEMIC)
LA English
FS Priority Journals
EM 200303
ED Entered STN: 20030316
Last Updated on STN: 20030326
Entered Medline: 20030325
AB Rheumatoid arthritis (RA) is a chronic disease, affecting women more than men, especially in those possessing the "shared epitope" (EQK/RRAA) amino

acid sequences present in HLA-DR1/4 molecules. Proteus mirabilis carries sequences showing molecular mimicry to the "shared epitope" and to type XI collagen of hyaline cartilage. Elevated levels of antibodies to P. mirabilis have been reported from 14 different countries involving 1375 RA patients and the microbe has been isolated from urine cultures of such patients. Our working hypothesis is that the disease develops as a result of repeated episodes of Proteus upper urinary tract infections. Prospective studies involving the trial of anti-Proteus measures in RA patients should be evaluated in the management of this disease. Antibiotics, high fluid intake, and fruit extracts, such as cranberry juice, have all been found to be effective in the treatment of urinary tract infections. Such measures could be used as possible additional adjuncts to the standard therapy with NSAIDs and DMARDs.

```
=> s l1 and l2 and l3 and l4
L10         77 L1 AND L2 AND L3 AND L4

=> s l10 and l5
L11         72 L10 AND L5

=> s l11 and l6
L12         70 L11 AND L6

=> s l8 and l12
L13          0 L8 AND L12

=> s l9 and l12
L14          0 L9 AND L12

=> s (creutzfeld-jacob disease or CJD)
L15       1585 (CREUTZFELD-JACOB DISEASE OR CJD)

=> s l12 and l15
L16          1 L12 AND L15

=> d l16 bib ab

L16  ANSWER 1 OF 1  USPATFULL
AN     2003:146305  USPATFULL
TI     97 human secreted proteins
IN     Ruben, Steven M., Olney, MD, UNITED STATES
       Florence, Kimberly A., Rockville, MD, UNITED STATES
       Ni, Jian, Germantown, MD, UNITED STATES
       Rosen, Craig A., Laytonsville, MD, UNITED STATES
       Carter, Kenneth C., North Potomac, MD, UNITED STATES
       Moore, Paul A., Germantown, MD, UNITED STATES
       Olsen, Henrik S., Gaithersburg, MD, UNITED STATES
       Shi, Yanggu, Gaithersburg, MD, UNITED STATES
       Young, Paul E., Gaithersburg, MD, UNITED STATES
       Wei, Ying-Fei, Berkeley, CA, UNITED STATES
       Brewer, Laurie A., St. Paul, MN, UNITED STATES
       Soppet, Daniel R., Centreville, VA, UNITED STATES
       LaFleur, David W., Washington, DC, UNITED STATES
       Endress, Gregory A., Florence, MA, UNITED STATES
       Ebner, Reinhard, Gaithersburg, MD, UNITED STATES
       Birse, Charles E., North Potomac, MD, UNITED STATES
PI     US 2003100051      A1   20030529
AI     US 2001-948783     A1   20010910 (9)
RLI    Continuation-in-part of Ser. No. US 2001-892877, filed on 28 Jun 2001,
       PENDING Continuation of Ser. No. US 1999-437658, filed on 10 Nov 1999,
       ABANDONED Continuation-in-part of Ser. No. WO 1999-US9847, filed on 6
       May 1999, UNKNOWN
PRAI   US 2000-231846P     20000911 (60)
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US 1998-85093P 19980512 (60)
US 1998-85094P 19980512 (60)
US 1998-85105P 19980512 (60)
US 1998-85180P 19980512 (60)
US 1998-85927P 19980518 (60)
US 1998-85906P 19980518 (60)
US 1998-85920P 19980518 (60)
US 1998-85924P 19980518 (60)
US 1998-85922P 19980518 (60)
US 1998-85923P 19980518 (60)
US 1998-85921P 19980518 (60)
US 1998-85925P 19980518 (60)
US 1998-85928P 19980518 (60)
DT Utility
FS APPLICATION
LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN Number of Claims: 23
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 32767
AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, **antibodies**, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

=> d l12 1-10 bib ab

L12 ANSWER 1 OF 70 USPATFULL
AN 2003:165984 USPATFULL
TI 25 human secreted proteins
IN Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ni, Jian, Germantown, MD, UNITED STATES
Florence, Kimberly A., Rockville, MD, UNITED STATES
Fiscella, Michele, Bethesda, MD, UNITED STATES
Wei, Ping, Brookeville, MD, UNITED STATES
Baker, Kevin P., Darnestown, MD, UNITED STATES
Birse, Charles E., North Potomac, MD, UNITED STATES
Young, Paul E., Gaithersburg, MD, UNITED STATES
Komatsoulis, George A., Silver Spring, MD, UNITED STATES
Moore, Paul A., Germantown, MD, UNITED STATES
Soppet, Daniel R., Centreville, VA, UNITED STATES
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)
PI US 2003113840 A1 20030619
AI US 2002-60255 A1 20020201 (10)
RLI Continuation of Ser. No. US 2001-781417, filed on 13 Feb 2001, ABANDONED Continuation-in-part of Ser. No. WO 2000-US22325, filed on 16 Aug 2000, PENDING
PRAI US 1999-149182P 19990817 (60)
DT Utility
FS APPLICATION
LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN Number of Claims: 23
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 20339
AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, **antibodies**, and recombinant methods for producing human secreted

proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

L12 ANSWER 2 OF 70 USPATFULL
AN 2003:160075 USPATFULL
TI Colon and colon cancer associated polynucleotides and polypeptides
IN Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steve C., Rockville, MD, UNITED STATES
Birse, Charles E., North Potomac, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)
PI US 2003109690 A1 20030612
AI US 2002-106698 A1 20020327 (10)
RLI Continuation-in-part of Ser. No. WO 2000-US26524, filed on 28 Sep 2000, PENDING
PRAI US 1999-157137P 19990929 (60)
US 1999-163280P 19991103 (60)
DT Utility
FS APPLICATION
LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN Number of Claims: 24
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 17981
AB The present invention relates to novel colon or colon cancer related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "colon or colon cancer antigens," and the use of such colon or colon cancer antigens for detecting disorders of the colon, particularly the presence of colon cancer and colon cancer metastases. More specifically, isolated colon or colon cancer associated nucleic acid molecules are provided encoding novel colon or colon cancer associated polypeptides. Novel colon or colon cancer polypeptides and **antibodies** that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human colon or colon cancer associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the colon, including colon cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

L12 ANSWER 3 OF 70 USPATFULL
AN 2003:159294 USPATFULL
TI Nucleic acids, proteins, and **antibodies**
IN Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)
PI US 2003108907 A1 20030612
AI US 2002-205428 A1 20020726 (10)
RLI Continuation of Ser. No. US 2001-764892, filed on 17 Jan 2001, PENDING
PRAI US 2000-179065P 20000131 (60)
US 2000-180628P 20000204 (60)
US 2000-214886P 20000628 (60)
US 2000-217487P 20000711 (60)
US 2000-225758P 20000814 (60)
US 2000-220963P 20000726 (60)
US 2000-217496P 20000711 (60)

US	2000-225447P	20000814 (60)
US	2000-218290P	20000714 (60)
US	2000-225757P	20000814 (60)
US	2000-226868P	20000822 (60)
US	2000-216647P	20000707 (60)
US	2000-225267P	20000814 (60)
US	2000-216880P	20000707 (60)
US	2000-225270P	20000814 (60)
US	2000-251869P	20001208 (60)
US	2000-235834P	20000927 (60)
US	2000-234274P	20000921 (60)
US	2000-234223P	20000921 (60)
US	2000-228924P	20000830 (60)
US	2000-224518P	20000814 (60)
US	2000-236369P	20000929 (60)
US	2000-224519P	20000814 (60)
US	2000-220964P	20000726 (60)
US	2000-241809P	20001020 (60)
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US	2000-190076P	20000317 (60)
US	2000-209467P	20000607 (60)
US	2000-205515P	20000519 (60)

US 2001-259678P 20010105 (60)
DT Utility
FS APPLICATION
LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN Number of Claims: 24
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 25967
AB The present invention relates to novel ovarian and/or breast cancer related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "ovarian and/or breast cancer antigens," and the use of such ovarian and/or breast cancer antigens for detecting disorders of the ovaries and/or breast, particularly the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian and/or breast cancer associated nucleic acid molecules are provided encoding novel ovarian and/or breast cancer associated polypeptides. Novel ovarian and/or breast cancer polypeptides and **antibodies** that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian and/or breast cancer associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

L12 ANSWER 4 OF 70 USPATFULL
AN 2003:146305 USPATFULL
TI 97 human secreted proteins
IN Ruben, Steven M., Olney, MD, UNITED STATES
Florence, Kimberly A., Rockville, MD, UNITED STATES
Ni, Jian, Germantown, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
Carter, Kenneth C., North Potomac, MD, UNITED STATES
Moore, Paul A., Germantown, MD, UNITED STATES
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
Young, Paul E., Gaithersburg, MD, UNITED STATES
Wei, Ying-Fei, Berkeley, CA, UNITED STATES
Brewer, Laurie A., St. Paul, MN, UNITED STATES
Soppet, Daniel R., Centreville, VA, UNITED STATES
LaFleur, David W., Washington, DC, UNITED STATES
Endress, Gregory A., Florence, MA, UNITED STATES
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES
Birse, Charles E., North Potomac, MD, UNITED STATES
PI US 2003100051 A1 20030529
AI US 2001-948783 A1 20010910 (9)
RLI Continuation-in-part of Ser. No. US 2001-892877, filed on 28 Jun 2001, PENDING Continuation of Ser. No. US 1999-437658, filed on 10 Nov 1999, ABANDONED Continuation-in-part of Ser. No. WO 1999-US9847, filed on 6 May 1999, UNKNOWN
PRAI US 2000-231846P 20000911 (60)
US 1998-85093P 19980512 (60)
US 1998-85094P 19980512 (60)
US 1998-85105P 19980512 (60)
US 1998-85180P 19980512 (60)
US 1998-85927P 19980518 (60)
US 1998-85906P 19980518 (60)
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US 1998-85925P 19980518 (60)
US 1998-85928P 19980518 (60)
DT Utility
FS APPLICATION
LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN Number of Claims: 23
ECL Exemplary Claim: 1
DRWN 6 Drawing Page(s)
LN.CNT 32767
AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, **antibodies**, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

L12 ANSWER 5 OF 70 USPATFULL
AN 2003:140505 USPATFULL
TI Nucleic acids, proteins, and **antibodies**
IN Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)
PI US 2003096346 A1 20030522
AI US 2002-73885 A1 20020214 (10)
RLI Continuation of Ser. No. US 2001-764852, filed on 17 Jan 2001, ABANDONED
PRAI US 2000-179065P 20000131 (60)
US 2000-180628P 20000204 (60)
US 2000-214886P 20000628 (60)
US 2000-217487P 20000711 (60)
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US 2000-205515P	20000519	(60)
US 2001-259678P	20010105	(60)

DT Utility
FS APPLICATION
LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN Number of Claims: 24
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 20722
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and **antibodies** that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and **antibodies**. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

L12 ANSWER 6 OF 70 USPATFULL
AN 2003:134527 USPATFULL

TI Nucleic acids, proteins, and **antibodies**

IN Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S. corporation)

PI US 2003092615 A1 20030515
AI US 2002-115928 A1 20020405 (10)
RLI Continuation of Ser. No. US 2001-764861, filed on 17 Jan 2001, PENDING
PRAI US 2000-179065P 20000131 (60)
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US 2000-198123P 20000418 (60)
US 2000-227009P 20000823 (60)
US 2000-235484P 20000926 (60)
US 2000-190076P 20000317 (60)
US 2000-209467P 20000607 (60)
US 2000-205515P 20000519 (60)
US 2001-259678P 20010105 (60)
DT Utility
FS APPLICATION
LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN Number of Claims: 24
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 21689
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and **antibodies** that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and **antibodies**. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

L12 ANSWER 7 OF 70 USPATFULL
AN 2003:134017 USPATFULL
TI Nucleic acids, proteins, and **antibodies**
IN Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S. corporation)
PI US 2003092102 A1 20030515
AI US 2002-74045 A1 20020214 (10)
RLI Continuation of Ser. No. US 2001-764866, filed on 17 Jan 2001, ABANDONED
PRAI US 2000-179065P 20000131 (60)
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US 2000-205515P 20000519 (60)
US 2001-259678P 20010105 (60)

DT Utility
FS APPLICATION
LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN Number of Claims: 24
ECL Exemplary Claim: 1
DRWN No Drawings

LN.CNT 23217
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and **antibodies** that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and **antibodies**. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

L12 ANSWER 8 OF 70 USPATFULL
AN 2003:120277 USPATFULL
TI Nucleic acids, proteins, and **antibodies**
IN Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES
PA Human Genome Sciences, Inc., Rockville, MD (U.S. corporation)
PI US 2003082758 A1 20030501
AI US 2002-103313 A1 20020322 (10)
RLI Continuation of Ser. No. US 2001-764854, filed on 17 Jan 2001, ABANDONED
PRAI US 2000-179065P 20000131 (60)
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US 2001-259678P 20010105 (60)

DT Utility
FS APPLICATION
LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN Number of Claims: 24
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 29207
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and **antibodies** that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and **antibodies**. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

L12 ANSWER 9 OF 70 USPATFULL
AN 2003:120200 USPATFULL
TI Nucleic acids, proteins, and **antibodies**
IN Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES
PA Human Genome Sciences, Inc., Rockville, MD, 20850 (U.S. corporation)
PI US 2003082681 A1 20030501

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US 2001-259678P 20010105 (60)
DT Utility
FS APPLICATION
LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN Number of Claims: 24
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 21414
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and **antibodies** that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and **antibodies**. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

L12 ANSWER 10 OF 70 USPATFULL
AN 2003:113075 USPATFULL
TI Nucleic acids, proteins, and **antibodies**
IN Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES
PI US 2003077808 A1 20030424
AI US 2001-764891 A1 20010117 (9)
PRAI US 2000-179065P 20000131 (60)
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DT Utility
FS APPLICATION
LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
CLMN Number of Claims: 24
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 59131
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel reproductive system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "reproductive system related antigens," and the use of such reproductive system related antigens for detecting disorders of the reproductive system, particularly the presence of cancers and cancer metastases. More specifically, isolated reproductive system associated nucleic acid molecules are provided encoding novel reproductive system associated polypeptides. Novel reproductive system

related polypeptides and **antibodies** that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including reproductive system cancers, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

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